

Claims Amendments

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (currently amended) A process for preparing a flexible polyurethane foam comprising reacting:
 - (a) a polyisocyanate-terminated prepolymer [~~comprising~~ consisting of the reaction product of:
 - (i) 80-100% by weight of a diphenylmethane diisocyanate comprising at least 40% by weight of 4,4'-diphenylmethane diisocyanate and/or a derivative of said diphenylmethane diisocyanate that is liquid at 25°C,
 - (ii) 20-0% by weight of another polyisocyanate,
 - (iii) a first polyether polyol having an average nominal functionality of 2-8, an average equivalent weight of 750-5000, an average molecular weight of 2000-12000, and an oxyethylene content of 50-90% by weight, and
 - (iv) a second polyether polyol having an average nominal hydroxyl functionality of 2-8, an average equivalent weight of 750-5000, an average molecular weight of 2000-12000, and an oxyethylene content of 0-25% by weight,wherein, the first polyether polyol and the second polyether polyol are used in a weight ratio of from [10:90]~~30:70~~ to [90:10]~~70:30~~; and
 - (b) an isocyanate-reactive composition [~~comprising~~ consisting of:
 - (i) 80-100% by weight of a polyether polyol having an average nominal functionality of 2-8, an average equivalent weight of 750-5000, an average molecular weight of 2000-12000, and an oxyethylene content of 50-90% by weight, and
 - (ii) 20-0% by weight of one or more other isocyanate-reactive compounds other than water;
in the presence of water, wherein the reaction is conducted at an isocyanate index of 70 to 120 and the polyisocyanate-terminated prepolymer has a NCO value of 5-30% by weight.
2. (original) The process according to claim 1, wherein the polyisocyanate-terminated prepolymer prepolymer has a NCO value of 10-25% by weight and the diphenylmethane diisocyanate comprises at least 70% by weight of 4,4'-diphenylmethane diisocyanate and/or a derivative of said diphenylmethane diisocyanate that is liquid at 25°C.

3. (original) The process of claim 2, wherein the first polyether polyol has an average nominal functionality of 2-6, an average equivalent weight of 1000-4000, an average molecular weight of 2000-10000, and an oxyethylene content of 60-85% by weight.
4. (original) The process of claim 2, wherein the second polyether polyol has an average nominal hydroxyl functionality of 2-6, an average equivalent weight of 1000-4000, an average molecular weight of 2000-10000, and an oxyethylene content of 5-20% by weight.
5. (original) The process of claim 3, wherein the second polyether polyol has an average nominal hydroxyl functionality of 2-6, an average equivalent weight of 1000-4000, an average molecular weight of 2000-10000, and an oxyethylene content of 5-20% by weight.
6. (cancelled) The process of claim 2, wherein, the first polyether polyol and the second polyether polyol are used in a weight ratio of from 30:70 to 70:30.
7. (cancelled) The process of claim 5, wherein, the first polyether polyol and the second polyether polyol are used in a weight ratio of from 30:70 to 70:30.
8. (original) The process of claim 2, wherein the polyether polyol (b)(i) has an average nominal functionality of 2-6, an average equivalent weight of 1000-4000, an average molecular weight of 2000-10000, and an oxyethylene content of 60-85% by weight.
9. (currently amended) The process of claim [7]5, wherein the polyether polyol (b)(i) has an average nominal functionality of 2-6, an average equivalent weight of 1000-4000, an average molecular weight of 2000-10000, and an oxyethylene content of 60-85% by weight.
10. (original) A flexible polyurethane foam obtained according to the process of claim 1.
11. (original) A flexible polyurethane foam obtained according to the process of claim 9.